

# Food Waste/Organics Management for Rural Counties

**CalRecycle SB 1383 Short-Lived Climate Pollutants:  
Organic Waste Methane Emissions Reductions  
Stakeholder Workshop**

**May 17<sup>th</sup>, 2017**

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Dave Meyer – Graduate Student in Chemistry, CSU Chico  
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# Butte County – Not technically rural, but not really urban.

- Population – 225,000
- Size: 1,677 sq. miles
- Major economic drivers: Rice, nuts, retail, education, health care, dam spillway reconstruction, Craft Brewing
- Cities: Chico, Paradise, Oroville, Gridley, Biggs
- Waste/Recycling haulers: Waste Management, Recology, Northern Recycling & Waste Services
- All jurisdictions are now or are soon to be franchised. No more open markets.



# Rural Challenges to Organics Diversion

- Lack of efficient collection densities
- Lower overall food waste volumes
- Regional collaboration difficult due to higher transportation costs
- Investment capital largely directed to where the volume can justify slim profit margins (The urban areas)



# Not one but two AD Facilities in Butte County

- North State Rendering's AD unit



- Neal Road Recycling & Waste Facility's LFG to Energy unit





# AB 1826 Implementation

- Started June of 2015 requesting haulers provide listings of the first two thresholds of required compliance levels. (8 yd & 4 yd organics)
- Met three times with haulers, municipal jurisdictions and other stakeholders to discuss implementation, concerns and costs.
- Created a AB1826/AB341 compliance spreadsheet to track progress and identify trouble accounts.
- Documentation, documentation, valid documentation.
- Open and frank discussion's with your market area rep
- Work with third party providers (North State Rendering)



# Tracking - Commercial

Commercial Account Recycling Compliance Table					Updated on: 4/26/2017						
Account #	Account Name	Address	Site Contact	Phone #	Trash Service Level	Recycling Service Level	Weekly Organics	Contact Date	Compliance 1826 Y/N	Compliance 341 Y/N	Action/Follow up Taken
<b>8 YD Threshold</b>											
290	TOWER MART #157		JIM BORDMAN		8 Yds	4 yd CB	<20%	12/15/15	Y	Y	No longer in business
1071	GOCOM MEDIA OF N.C.		DAVID LOWERY		8 Yds	Toters				Y	
1178	MANZANITA SCHOOL		MANZANITA SCHOOL		12 Yds	Recology toters		12/30/15		Y	Recycling offered by school, not from WM.
2366	FAR WEST RICE		JOHN		20 Yd Roll-Off	N				N	AB 341 Compliance Direct Mailer Sent
2418	MODERN BUILDING		AMANDA SCHMIDT		20 Yd Roll-Off	N		3/20/17		N	AB 341 Compliance Direct Mailers Sent
2473	SPRINGS OF LIVING WATER				40 Yd Roll-Off	N					Outside Recycling Zone
27695	OAKRIDGE CABINETS				18 Yds	Y	<75%	12/30/15	Y	Y	
35083	REHKLAU, JOHN				8 Yds	N		3/20/17		N	AB 341 Compliance Direct Mailers Sent
43717	CLEANRITE		EDWARD BARR		40 Yds	N	<10%	3/20/17	Y	N	AB 341 Compliance Direct Mailers Sent
60245	NORTH STATE ELECTRIC				12 Yds	6 yd CB		3/22/17		Y	
77755	BERBERIAN NUT COMPANY - TRASH				20 Yd Roll-Off	N				N	
78405	SOERENSON CONSTRUCTION		JOEY SOERENSON		12 Yds	9 CB				Y	
78531	DBI BEVERAGE CHICO				8 Yds	Y	<10%	12/11/15	Y	Y	
78801	EL RANCHO/E SIDE LITTLE LEAGUE		JASON BAY		6 Yds	3 BC				Y	
79467	CARPET STORE				24 Yds	4 yd CB	<10%	12/15/15	Y	Y	
82240	BIG FOOT CARPET INC		NICK GUICHARD		12 Yds	N		3/22/17		N	AB 341 Compliance Direct Mailers Sent & Voice Message left at office on 3/22/17
56560	BUTTE COUNTY SHERIFF'S OFFICE		MARK PIERCE		30 Yd Compactor	N		3/20/17		N	AB 341 Compliance Direct Mailers Sent
83820	NORTH VALLEY AG SERVICES		MARK PIERCE		12 Yds	4 CB				Y	
95764	MODERN BUILDING				40 Yd Roll-Off	N					Temp
89622	DESERET FARMS				20 Yd Roll-Off	N					Outside Recycling Zone
94985	LINKUS ENTERPRISES				40 Yd Roll-Off	N	<10%	12/15/15	Y	Y	
93660	WOOD BROTHERS CARPET,		DAVID HARRIS		16 Yds	Y	<10%	12/11/15	Y	Y	
93731	BUZZTAIL COMMUNITY				12 Yds	N			N	N	Outside Recycling Zone
93932	LINKUS ENTERPRISES				9 Yds	Y		12/15/15	Y	Y	
95447	CHICO CREEK NURSERY				40 Yds Roll-Off	N					Outside Recycling Zone
94242	WEISS MCNAIR RAMACHER		LOREY		27 Yds	Y	<10%	12/15/15	Y	Y	
94397	COHASSET INDUSTRIAL PARK				18 Yds	Y		12/15/15		Y	



# Kitchen Education

(For N S Rendering A.D. feedstock)

- Pictures are better than words
- Laminated to hold up under kitchen conditions
- On every container and wall
- The bigger-the better



# Hauler Concerns

- Cost. Additional routes.
- Additional outreach/public education.
- Reporting requirements
- Non-compliant accounts

“We can’t get some accounts to separate cardboard, let alone food waste”
- Contamination charges

# Customer Concerns

- Cost. Organics processing costs higher than disposal costs
- Labor. Additional sorting by kitchen staff.  
Constant retraining of work crew
- Space considerations
- Aroma considerations
- Contamination charges





# Rural Jurisdiction Concerns

- Industry intransigence (Generators)
- Urban Woodwaste/greenwaste being sidelined for cogeneration by large volumes of higher BTU forest die-off
- Concerns relating to current greenwaste facilities possibly closing due to water and air regulation violations



# North State Rendering Concerns

- Lack of feedstock
- Lack of feedstock
- Lack of feedstock
  - 100 ton/day capacity ... Only bringing in 15-20 tpd.
- Infrastructure needs



# Concerning Case Study



[mail@earthwormsoilfactory.com](mailto:mail@earthwormsoilfactory.com)

- 2005 RMDZ “Zoney” Award winner
- Key greenwaste processor in Butte County
- Upcycling greenwaste into a highly valued and high demand product
- Turning customers away from the use of Ammonium Nitrate
- **May have to move out of State due to enhanced WDR's**





# Going Forward



- Identify those hurdles that will impede the full implementation of organics diversion.
  - Permitting
  - Industry acceptance
  - Cost
  - There are more



- Work with neighboring jurisdictions to collaborate on a regional approach to infrastructure, industry outreach and technical assistance.
- Share successes with all concerned so that we will collectively meet or exceed the 75% diversion goal.

